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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/835,465 04/17/2001		Thomas Senn	031211-059	5999	
21832 7:	590 01/12/2005		EXAMINER		
MCCARTER & ENGLISH LLP			HARRISON, CHANTE E		
CITYPLACE I 185 ASYLUM			ART UNIT	PAPER NUMBER	
HARTFORD, CT 06103			2672		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	tion No	Applicant(s)				
Office Action Summary		09/835,		SENN ET AL.				
		Examine		Art Unit				
		Chante	Harrison	2672				
	- The MAILING DATE of this communical		·		ddress			
Period fo	r Reply							
THE N - Exten after: - If the - If NO - Failur Any re	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA sions of time may be available under the provisions of 3 SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) day period for reply is specified above, the maximum statuto e to reply within the set or extended period for reply will, eply received by the Office later than three months after the digital patent term adjustment. See 37 CFR 1.704(b).	TION. 7 CFR 1.136(a). In no eation. ays, a reply within the st ry period will apply and by statute, cause the ap	event, however, may a reply be time atutory minimum of thirty (30) day will expire SIX (6) MONTHS from application to become ABANDONE	nely filed s will be considered time the mailing date of this of 0 (35 U.S.C. § 133).				
Status								
1) 又	Responsive to communication(s) filed of	n 16 September	2004.					
·=	<ul> <li>∴ Responsive to communication(s) filed on 10 September 2004.</li> <li>∴ This action is FINAL.</li> <li>2b) This action is non-final.</li> </ul>							
	•			secution as to the	e merits is			
• —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims	·		·				
_		lication						
-	Claim(s) <u>1-44</u> is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration							
	4a) Of the above claim(s) is/are withdrawn from consideration.  5) ☐ Claim(s) is/are allowed.  6) ☑ Claim(s) 1-44 is/are rejected.							
·								
	Claim(s) is/are objected to.							
·	Claim(s) are subject to restriction	n and/or election	requirement.					
-	on Papers		·					
_	•	vaminer						
•	9) The specification is objected to by the Examiner.  10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
•	nder 35 U.S.C. § 119		-					
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_	Acknowledgment is made of a claim for ☐ All b) ☐ Some * c) ☐ None of:			)-(d) or (f).				
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Attachment	(s)							
_	e of References Cited (PTO-892)		4) Interview Summary	(PTO-413)				
2) 🔲 Notice	e of Draftsperson's Patent Drawing Review (PTO-	•	Paper No(s)/Mail Da	ate				
	nation Disclosure Statement(s) (PTO-1449 or PTO No(s)/Mail Date	D/SB/08)	5)	atent Application (PT	O-152)			

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#### **DETAILED ACTION**

1. This action is responsive to communications: Amendment filed on 9/16/04.

This action is made FINAL.

2. Claims 1-6, 8-26 and 28-44 are pending in the case. Claims 1 and 21 are independent claims and are presently amended. Claims 7 and 27 have been previously canceled.

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 1. Claims1-38, 40-41 and 43-44 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lindsay Holt et al, U.S. Patent 5,528,261, 6/1996.

As per independent claim 1, Holt discloses a process for producing an electronic color information file for color communication, wherein the file includes at least one data set describing the color impression of at least one color sample comprising making available one data set (Fig. 6; col. 4-5, Il. 66-2), coding the at least one data set describing the color impression into a text format (i.e. the color architecture is

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implemented in object oriented programming design using any one of multiple text based programming languages which code/represent the data for processing, such as colorimetric data, e.g. gamut, attributes, e.g. profile and tonal reproduction curve) (col. 4, II. 1-20, 65-67; col. 6, II. 15-27; Fig. 5), storing the data set describing the color impression in the color information file in a text format (i.e. storing the encoded data in a file) (col.9, II. 26-33; col. 6, II. 10-20; abstract), all the information data associated with the color sample (col. 5, II. 21-25) and one of identifying, characterizing, and supplementing the one color sample (col. 5, II. 24-27) are stored as information containing data objects (col. 5, II. 40-45) in an open, expandable, hierarchically organized object structure in the color file (abstract).

Holt fails to specifically disclose a pure text format.

Holt discloses coding the data into text by implementing an object-oriented programming design (col. 5, II. 65-67; col. 6, II. 15-27).

It would have been obvious to one of skill in the art to incorporate the a pure text format with the disclosure of Holt because an object-oriented programming design uses any of one of multiple text based programming languages to code/represent the color data to be processed, where text based programming languages implement a pure text format.

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As per dependent claims 2 and 22, Holt discloses each data object is labeled with a characterizing type description selected form a group of predefined type descriptions (col. 6, II. 33-38), the type description provides details on the structure and content of the data object (col. 6, II. 33-48) and the data type description of the data object is stored in the color information file in defined relation to the information data of the data object (col. 6, II. 33-50).

As per dependent claims 3 and 23, Holt discloses one data object includes one hierarchically subordinate data object (col. 6, II. 33-45), each subordinate data object is labeled with a characterizing type description (col. 9, II. 50-55) selected from a predefined group of type descriptions (col. 6, II. 33-38), the type description provides details on the structure and content of the data object (col. 6, II. 33-48) and the data type description of the data object is stored in the color information file in defined relation to the information data of the data object (col. 6, II. 33-50).

As per dependent claims 4 and 24, Holt discloses a name is associated with one of the data object of the uppermost level of the hierarchy (col. 6, II. 33-36) and the data objects respectively subordinate to a data object (col. 7, II. 45-55), which name defines the respective data objects and is stored in the color information file in defined relation to the respective data objects (col. 6, II. 33-55).

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As per dependent claims 5 and 25, Holt discloses an explanatory description is associated with one of the data object of the uppermost level of the hierarchy (col. 6, II. 33-36; col. 9, II. 50-60) and the data objects respectively subordinate to a data object (col. 7, II. 45-55), which explanatory description defines the respective data objects and is stored in the color information file in defined relation to the respective data objects (col. 6, II. 33-55; col. 9, II. 50-60).

As per dependent claims 6, 26 and 41, Holt discloses at least one data object includes a subordinate data object, which represents a connection pointer to another data object within or outside the color information file (col. 6, II. 1-15).

As per dependent claims 8 and 28, Holt discloses at least one data object includes a binary data object as information data, wherein this binary data object is stored in the color information file as symbols in MIME-compatible format (i.e. text representation) (col. 29-30).

As per dependent claims 9 and 29, Holt discloses the hierarchically organized object structure of the data objects is built on the basis of a page description (abstract).

As per dependent claims 10 and 30, Holt discloses the step of storing the information data which are associated with one color sample and one of identify, characterize, and

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complement the color sample is carried out by arbitrarily selecting from a predefined group of data object types (col. 5, II. 15-18; col. 6, II. 20-40).

As per dependent claim 11, Holt discloses the predefined group of data object types can be expanded with additional data object types (col. 14, II. 40-65).

As per dependent claims 12 and 31, Holt discloses the predefined group of data object types includes at least data objects for spectral and calorimetric data (col. 11, II. 40-60; Fig. 7).

As per dependent claims 13 and 32, Holt discloses the predefined group of data object types additionally includes data objects for further information data relevant for the visual impression of the color (col. 10, II. 30-65).

As per dependent claims 14 and 33, Holt discloses the predefined group of data object types additionally includes data objects for ICC profiles (col. 10, II. 30-65), measurement conditions (col. 14, II. 25-40), light source data (col. 11, II. 40-60) and device profiles (col. 11, II. 65-67).

As per dependent claims 15 and 34, the predefined group of data object types additionally includes data objects for image data (col. 2, II. 15-30).

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As per dependent claim 16, Holt discloses the predefined group of data object types additionally includes at least one of data objects for image data (col. 12, II. 32-35) and substrate describing data, wherein the image data preferably represent structure information such as surface condition (i.e. surface brightness as determined by spectral energy distribution) or graininess of the at least one color sample to be communicated (Fig. 7; col. 11, II. 40-61)

As per dependent claim 17, Holt discloses the predefined group of data object types additionally includes data objects for supplementary data (col. 9, II. 50-60) representable in text format (col. 7, II. 45-55).

As per dependent claims 18 and 36, Holt discloses any combination of emission, remission and transmission spectra, and calorimetric data (i.e. dominant wavelength used to determine surface luminance) are stored in the color information file (col. 11, II. 40-61; Fig. 7).

As per dependent claims 19 and 37, Holt discloses emission spectra and remission spectra of the one color sample are stored in the color information file (col. 11, II. 40-60), such that the illumination light source can be taken into consideration by way of a color model for the visual representation of the one color sample on a screen (Fig. 4; col. 5, II. 55-65).

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As per dependent claims 20 and 38, Holt discloses an input profile and several output profiles assigned to a color sample and stored in the color information file (Fig. 1), and the input profile is used to recalculate a color sample from a device dependent color space into a device independent color space (col. 12-13, II. 64-6), and the output profiles are used to recalculate the color location of the color sample from the device independent color space into a selected device dependent color space (col. 11, II. 5-15) and to display the color location therein (Fig. 8).

As per independent claim 21, Holt discloses a process for communicating information relevant for visual color impression of a color sample comprising coding the information relevant for visual color impression represented by the one of measured data and manually produced value data into text (i.e. the color architecture is implemented in object oriented programming design using any one of multiple text based programming languages which code/represent the data for processing, such as colorimetric data, e.g. gamut, attributes, e.g. profile and tonal reproduction curve) (col. 4, II. 1-20, 65-67; col. 6, II. 15-27; Fig. 5); storing the coded information at a transmitter end in a color information file in a text format (col. 9, II. 26-33; col. 6, II. 10-20), and transferring the color information file to a receiver by way of a communication medium (col. 4-5, II. 64-2; Fig. 1), and displayed in visual form at the receiver end (col. 1, II. 20-25), all the information data associated with the color sample (col. 5, II. 20-25) and identifying, characterizing and supplementing the color sample (col. 5, II. 24-27), being stored as information

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containing data objects (col. 5, II. 40-45) in an open, expandable, hierarchically organized object structure in the color file (abstract).

Holt fails to specifically disclose a pure text format. The rationale as applied in the rejection of claim 1 applies herein.

As per dependent claim 35, Holt discloses the predefined group of data object types additionally includes at least one of data objects for image data and substrate describing data, whereby the image data preferably represent structure information of the at least one color sample to be communicated (col. 12, II. 32-35).

As per dependent claims 40 and 43, Holt discloses the predefined group of data object types includes device dependent color data (col. 8, II. 1-5).

As per dependent claim 44, Holt discloses structure information includes at least one of surface condition or graininess (col. 11, II. 40-61; Fig. 7).

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## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 39 and 42 are rejected under 35 U.S.C. 103(a) as being unpatentable over Holt et al. as applied to claims 1 and 21 above, and further in view of Maribeth Back et al., U.S. Patent 6,515,690, 2/2003.

As per dependent claims 39 and 42, Holt fails to disclose the hierarchically organized object structure of the data objects is built on the basis of Extensible Markup Language, which Back discloses (col. 6, II. 38-47; col. 7, II. 40-45).

Holt teaches a computer system communicating with peripheral devices in an objectoriented architecture, which receives input color data, accesses hierarchical files and
transmits corresponding output data. Back teaches an object oriented system using
XML (Extensible Markup Language) files to output desired display attributes stored in
the files that correspond to system input. It would have been obvious to one of skill in
the art to include Back's object structure built on the basis of Extensible Markup
Language with the disclosure of Holt to improve indexing of a variety of stored data.

4. Applicant's arguments filed 9/16/04 have been fully considered but they are not persuasive.

Regarding claims 1 and 21, Applicant argues (pp. 11, Para 2 & pp. 12, Para 2) Holt et al. fail to suggest coding and storing [color impression] data in a pure text format...

In reply, Holt et al. disclose a color architecture implemented in an object oriented programming design (Fig. 5), where the architecture contains multiple classes that include color gamut, e.g. colorimetric data, and characteristic data, e.g. tonal reproduction curves and profiles, which describe the color impression. Holt et al. disclose coding the data into text by implementing an object-oriented programming design which uses any of one of multiple text based programming languages to code/represent the color data to be processed (col. 5, II. 65-67; col. 6, II. 15-27). Therefore the rejection in view of Holt et al. is maintained.

Applicant argues claims 2-6, 8-20, 22-26,28-38, 40-41 and 43-44 are allowable in view of the arguments presented and based on their dependency from corresponding independent claim 1 or 21.

In reply, the rejection regarding the above-identified claims is maintained.

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Regarding claims 39 and 42, Applicant argues Back et al. fail to overcome the shortcomings of Holt based on Applicants arguments suggesting Holt's lack of disclosure of the claimed inventive elements.

In reply, based on the above reply related to Holt, the rejection of claims 39 and 42 in view of Holt and further in view of Back et al. is maintained.

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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#### **Conclusion**

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chante Harrison whose telephone number is 703-305-3937. The examiner can normally be reached on Monday - Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Razavi can be reached on 703-305-4713. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chante Harrison Examiner Art Unit 2672

ceh

December 29, 2004

MICHAEL RAZAVI
SUPERVISORY PATENT EXAMINER

MOLOGY CENTER 2600